Course Specifications
Valid as from the academic year 2019-2020

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size (nominal values; actual values may depend on programme)
Credits 5.0 Study time 150 h Contact hrs 37.5 h

Course offerings and teaching methods in academic year 2020-2021

A (semester 2) Dutch Gent lecture 10.0 h

Lecturers in academic year 2020-2021
Leroux-Roels, Isabel GE32 lecturer-in-charge
Boelens, JERINA GE32 co-lecturer
Callens, Steven GE35 co-lecturer

Offered in the following programmes in 2020-2021 crdts offering
Master of Science in Hospital Hygiene 5 A

Teaching languages Dutch
Keywords healthcare associated infections, nosocomial infections, surveillance, outbreak, epidemic, legionella

Position of the course The student gains practical insight in the surveillance of healthcare associated infections, in the detection and management of outbreaks.

Contents
Lecture 1: surveillance of healthcare associated infecties (e.g. CLABSI, CAUTI, VAP, SSI) and epidemiologically important micro-organisms (e.g. MRSA, CPE, VRE, C. difficile)
• purpose and aim of surveillance,
• definitions of healthcare associated infections
• types of surveillance,
• Belgian programme of surveillance of nosocomial infections (NSIH)
• critical overview of the methods of data collection,
• role of the microbiology laboratory,
• purpose of automatisation
Lecture 2: surveillance of infections related to aqueous sources
• Legionella: reservoir, transmission route, risk factors, Legionella management plan (legislation, BBT, control measures, ....)
• Endoscopy-related infections and their prevention
• Pseudomonas aeruginosa in augmented care units
Lecture 3: Outbreaks
• Definition
• Detection and management of an outbreak
• Microbiological typing techniques
• Practical examples

Initial competences
Master in Medicine
Master in Pharmaceutical Care or Master in Drug Development and enrolled in Master of Clinical Pathologie (Klinische Biologie)

Final competences
1 The student has insight in different surveillance methods and knows when which

(Approved)
method can be applied.

2 The student is aware of the Belgian legislation with regard to surveillance of healthcare associated infections and epidemiologically relevant microorganisms.

3 The student performs the surveillance of healthcare associated infections and epidemiologically relevant microorganisms independently.

4 The student is aware of the Flemish legislation with regard to the prevention of legionnaire's diseases in healthcare institutions.

5 The student is aware of the most important aspects of a legionella management plan and can critically evaluate such a plan.

6 The student is aware of the risks of incomplete endoscope reprocessing and knows how to evaluate this (e.g. by performing audits of critical points in the process and microbiological surveillance).

7 The student knows how to detect and manage an outbreak in the healthcare environment.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture

Extra information on the teaching methods

Lectures
Interactive sessions
Microteaching

Learning materials and price

Handouts of the powerpoint presentations

References

Mayhall. Hospital Epidemiology and Infection Control. 4th Edition.

Course content-related study coaching

The lecturers can be contacted at any time (during classes, via e-mail).

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Oral examination, participation

Examination methods in case of periodic evaluation during the second examination period

Oral examination, participation

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Extra information on the examination methods

Microteaching. The student gives a presentation on surveillance or outbreak management (from own experience or taken from scientific literature). The lecturers and colleague students pose critical questions. More general questions on the content of the course can also be asked.

Calculation of the examination mark

(Approved)